

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
18 December 2003 (18.12.2003)

PCT

(10) International Publication Number  
**WO 2003/104761 A3**

(51) International Patent Classification<sup>7</sup>: **G01N 33/68**,  
33/92, 33/566, 33/74, A61K 38/16

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(21) International Application Number:  
PCT/IB2003/002641

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(22) International Filing Date: 11 June 2003 (11.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
519504 11 June 2002 (11.06.2002) NZ  
2002951020 23 August 2002 (23.08.2002) AU

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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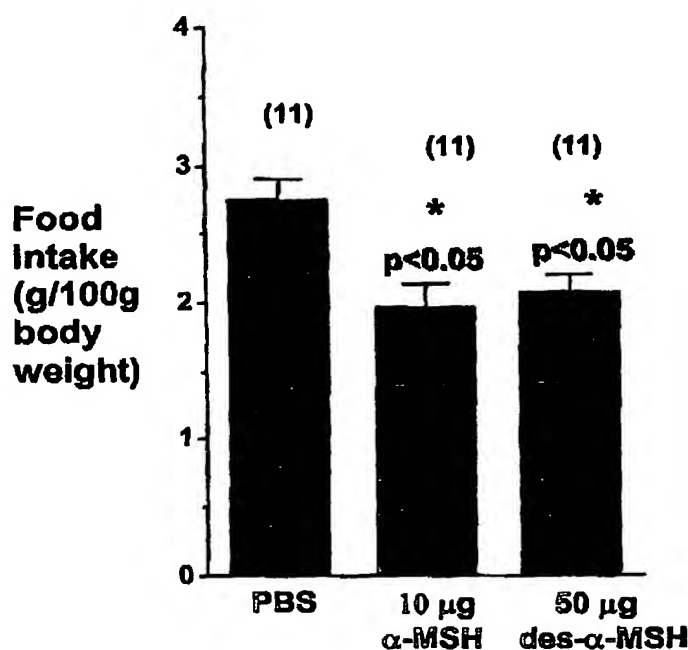
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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[Continued on next page]

(54) Title: MEASUREMENT OF MELANOCORTIN PEPTIDES AND USES THEREOF



(57) Abstract: The present invention relates to melanocortin peptides and to methods that utilise melanocortin peptides, their measurement, their receptors and biological response systems for the risk assessment and diagnosis of disease. The biological response systems are also utilised to screen for compounds that act as agonists or antagonists of melanocortin receptors.

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**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**(88) Date of publication of the international search report:**

29 January 2004

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB03/02641

**A. CLASSIFICATION OF SUBJECT MATTER**Int. Cl. <sup>7</sup>: G01N 33/68, 33/92, 33/566, 33/74, A61K 38/16

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

Refer electronic databases consulted

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
 DWPI IPC G01N 33/68, 33/92, 33/566, 33/74 C07K -/-, A61K 38/16 and keywords (melanocortin, obesity, leptin, MSH, proopiomelanocortin, opiomelanocortin and like terms) PubMed, esp@cenet, USPTO

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00/44898 A (AMGEN INC) 3 August 2000 See whole specification, page 2 lines 6 - 16	1 - 6
X	US 6310034 B (WOYCHIK ET AL) 30 October 2001 See whole specification, Examples 16 to 20	1 - 6
X	WO 99/31508 A (MERCK & CO INC) 24 June 1999 See whole document, page 1 line 17 to page 2 line 31	1 - 6

☒ Further documents are listed in the continuation of Box C☒ See patent family annex

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  
19 November 2003

Date of mailing of the international search report  
26 NOV 2003

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## C (Continuation).

## DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99/21571 A (TREGA BIOSCIENCES, INC) 6 May 1999 Example VIII, IX, X, page 1 line 23 to page 3 line 14	1 - 13
A	NIPPON RINSHO. 2002 Feb;60(2):404-9 PMID: 11857934 SHINTANI M et al <i>Obesity induced by abnormality in leptin receptor and melanocortin-4 receptor</i> No translation available, see whole PubMed Abstract	1 - 33

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/IB03/02641

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
WO	0044898	AU	29731/00	US	6303749		
US	6310034	US	5789651	US	5843652	US	6080550
		US	2002151463				
WO	9921571	AU	74649/98	US	6350430		
WO	9931508	CA	2314971	EP	1040351		
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